

source of the property of the second MIDI

89.900 63.300



The JX-RP is velocity- and pressure-seniotive. Valocity information is used to control the DCO pitch, the mix balance between the DCO-1 and DCO-2, the VCF cutoff frequency, and the VCA level. Three levels of velocitysensitivity can be selected. Pressure information is used to control the vibrate depth. The brilliance, or the volume. Even the slightest change in touch is reflected in the sound.

Two DCOs and, for the first time in this price range, two Envelope Generators are used to produce each voice. Other synthesizer elements, extensive modulation controls, and dynamics capability allow the JCSP to produce more impressive sounds then ever before-trom crystal-clear sounds to acreaming sounds.

The JX-8P offers 64 preset patches including er/hemsely thick string sounds, cross-modulated metalic sounds, a variety of special effect sounds, and many more. It can also stone 12 programmable patches. In addition, the cotional M-16C memory cartridge provides 32 programmable patches. A total of 128 patches can be instantly recalled even during o performance. The Edit function allows all patch parameters to be delicately controlled so as to modify a preset patch or to create a new patch. The optional PG-800 programmer cen be used to facilitate editing

The JX 8P offers yet one more amazing funcfrom you can name the patch you created and store it in the DI-8P memory. When the patch is recalled, a newly developed FIP display spells out the patch name. The display also spells out the parameter name when it is edited. You can easily select the desired patch and recall the desired parameter even on a dark stage

### REAR PANEL



A new Patch Chain function allows the JX-88\* to memorize up to 8 combinations of patch. key mode, whether the pressure information is: activated or not, bend range, whither the portamento is activated or not, portamento time, LFO modulation depth, and whether the Unison Detune function is activated or not. These combinations can be recalled instantly. This function is especially effective for live performance.

in addition to these existing features, the JOSP offers full MtDI compatibility it can be used as a mother keyboard for any MIDI setup and brings out the best in all connected. MIDE INSTUMENTS.

Despite its transandous capabilities and attractive features, the JS-8P weighs only 11.5. RIOGRAMS.

### SPECIFICATIONS.

\*Keyboard: 61 keys (5 octover), C sooks

•Memories: 64 preset patiches, 32 internal programmubie patches, 32 external programmuble patches M-16C) +Edt: Patch parameters, Patch Name, MIDI function, Master tune +Touch Plade: Parich Select IT to 32), Blank Select (Phissel, Millernal, Carthilder). Parish Chain British, 4. It ), Key Mode (Poy, Unicon, Solot, Atter Touch (Vibrato, Brillanox, Volume), Copy (Carridge to Memory, Memory to Cartistips)

Controls: Volume, After Touch, Edit, Band Range Seect. Floor BendiLFO Lever. Portamento Time. Portamento On/Off • Display: 16-digit FIP display

AMemory Carridge Holler: 1 AJacks, Phone Culput 4.2 Steven, Mono, 7.5x55; Headphones (80) stevet). Hold Flydal (DP-Ct, MDx (in: Out, Thru, 5-pin DIN). Programmer in IS-on DRV +Switches: Output Level 1, Miles Memory Protect Off On Oth + Consensors 9171W0 × 90940 × 375/Dimm (36.5" × 3/6" × 14/8").

 Wilder: 11.5 kg GS.3 b.1 • Accessory: Correction pord # 2







The PC-800 is a programmer designed exclusively for use with the JX-8P. It facilitates preason of new patches and modification of preset patches. All JIK-BP parameters can be controlled by the PG-800's sliding controls.

Light and compact. The PG-800 neatly fills on too of the LX-IIP and is held in place by a magnetic seaf. It also comes complete with a cerrying case.

### SPECIFICATIONS.

\*DCD-t: Rungii (2', 4', 6', 16'). Waveloim (\*1-, Jh. FLJ. Noset: Tune (all cell), Frequency DQD-1 plus Cross Modulation (Off/1/2/3) and Fine Tune +Mixer: Level (DOO-1, DOO-2), Envelope Modulation, Dunamics Select (CRIT/200), Envelope Model ( ... L | + HPF: OH/2/3 + VCF: Cutoff Frequency, Resonance, LFO Modulation, Envelope Modulation, Key Follow, Dynamics Select IOII/1/2/30. Envelope Mode ( ^ . . . . . . . ) • VCA. Mode (ENV-2. Gate JTL 1: Level, Dynamics Select (Df/1/2/3) \*EW/-1: Attack Time, Decay Time, Sustain Lavel, Release Time: Key Follow (Off/1/3/3) \*ENV/J: Same Rundomi, Delay Time, Rate + Chorus: Mode Select Of 121 \*Function Manual Write \* Jack 5-pin DIN Denembers: 255(W) × 27(H) × 215(Dimm) (10.4" × 1.1' x 6.5') +Weight: 680 g (1.5 b)) +Accestories: E-pin DIN casto, Carrying case



73.00



A steek space age instrument, the JX-3P is ain. exciting mix of sophistication and simplicity. The latest interface technology (MIDI), a Polyphonic Sequencer with Tape Storage, Twelve Digitally Controlled Oscillators, and Sixty-four Patch Memories are only some of the features available on the JX-3P. The JX-3P is so simple to operate that most of its sound. parameters can be changed by the same two controls in the Edit section.

Programmable, Preset, and Polyphonic 6he three P's) the JX-3P is all these things and more. Combining the versality of a programmable synthesizer (32 patch memories) and the convenience of a preset (also 32 patch. remarks). The JX-3P is a slit voice polyphonic -nihesizer that uses twelve DCO's to achieve the big sound that is so popular

The Preset section offers a broad vocabulary of musical sounds including the most sought after simulation patches (Strings, Brass, and other acoustic instrumental found in banks A and B of the JX-3P

Cross Modulation, which is used to create metallic sounds and Ring Modulator effects, is included on the JX-3P

Six VCF's, Six VCA's, six Envelopes are combined with the extensive Modulation controls. to give the JX 3P user all the tools necessary to create that "perfect patch.

Stereo Chorus, External Trigger for the Sequencer, Hold pedal connection, and Key Transpose add professional features to the JX-3P. A superlative performance control section that includes an extra large Bender with three different modes of operation and a separate LFO Trigger Pad are the finishing touches on a versalile performer

### **SPECIFICATIONS**

 Keybourd 61 keys (5 octaves: C scale) • Bultons & Indicators: Bank (A to D), Number (1 to 16), LFO ing, Chorus, Muse, violat, Key Transpose, Tape Marriery \*Controls: Pitch Bender, Volume, Brillande \*Switch: Bender range select (Wide/Mid/Marrow) Preset voices: Bank A.(1 to 16) Strong I, Strong II. Organ I. Organ II. Organ III. Brass I. Brass II. Exectric Plane I. Deetre Plane II. Class. Harpsicherd. Viziraphone, Chime, Celesta, Ancondon, Visce, Bank B (1 to 16) Violin Fiute Case, Song Whittle, Synth Brass J, Synth Brass E, Dest Gultar, Judy Fore, Filter Flow, Fall Pillin, Sync Wah, Bync Sweep, Funky Clavi. Pusser Panet Jel \*Mornary 32 Patch programs mable (battery back-up), Bank C (1 to 16), Bank D (1 to 16) #Edit section (32 elements, Group A: 1 to 16, Group B: 1 to 16) . Bultons & Indicators: Group A. Group B. Write . Control Sense # Sequences section. . Buttons & Indicators: Write. Tex. Flest. Start Stop \*Control: Feate \*Namory capacity; 128 steps this visce polyphoris, battery back-upl # Tape memory \*Saguencer Save, Verily Load \*Tone Save, Venty, Load @Finar banet. + DIN Jacks. Programmer in - 6-pin, MIDI (in, out, through) \*Ftigree paries. Outsut imono, stensor, Phones, Host pedal. Sog Trigger in, Tapa Memory (save, load) \*Switches output level (in: OpBm/M: =15aBm/L: =30dBmi. External instruments select (MIDI BUS, Memory Protect on Programmer). Power delott . Control Ture (±50 cent) + Dimensions, 912(W) × 115(H) > 325@fmm (35.9" \* 4.53" \* 12.8") \*Weight: 9.8 kg (21.6 lb.) \*Accessories: Music rest Connection cable x 2

 Options KS-2 stand, FV-200 facil volume, CB-JX teatherette case. RH-10 headphones. DP-2 peak switch





16-80

The obtional PG-200 Programmer is a modular unit that can be used with more than one JX-3P or with allies synthesizer products Roland will produce in the near future. The Programmer gives the user simultaneous control over nearly every parameter of sound. Complete with features like Cross Modulation and Programmable Chorus, the PC-200 can be used with the JX-3P to create new sounds for the programmable banks (C and D) and edil the preset banks (A and Bi.

### **SPECIFICATIONS**

- \*D004 \*D004 \*VCF \*VCA \*Chorus \*LFG
- Energice Bullions & Indicators, Manual, Write
- Connector (6P DIN) Dimensions: 244(W) = 450H) × 172(D)mm (9.6" × 1.8" × 6.8") → Weight: 1.4 kg

(3.08 b.) • Accessory: 6P DIN cable





# JUPITER-6 6-voice polyphonic synthesizer



170.00



Designed for the musician who demands the utmost in performance and relability, the JUPITER synthesizers from Rolling are the fitted performance oriented polyphonic synthesizers available at any price.

The now legendary Jupiter 6 is joined by the Jupiter 6 to give consumers a choice of features and price bracket. The Jupiter 6 provides two powerful VCD's per voice as well as a depth of control and performance features normally found only on elaborate modular systems.

Benefiting from the ground breaking technology of the Jupiler 6, the Jupiler 6 is more than the little brother of this malarry standard. Combinable Wayveforms, JQ Parch Preset Pairs, MIDI, and greater ornhol of Mospation parameters make the Jupiler 6 a unique and special instrument.

48 Patch Memories with Cassette Storage (load and dump) innure that the right sound is only a outron away, 32 Patch Friend Pairs give the Jupiter 6 user more combinations of split keyboard sounds and these pairs can be changed by mains of a DP-2 foot pada. Should bower be interrupted for any reason, a built in ballery processes the data in resmory. Cassette interface data is transmitted at around 3,200 bauts so an entire ping am can be completely reclined in approximation, 15 seconds.

A variety of Spall Keyboard Modes allow either two voices left and four voices right or four voices left and two notic. Four Keyboard Assign Modes including. Pour 1, Pluy 2. Unison Solo, and Solo Unison voices the performer the flexibility to match the stife and model of misor that is being played.

Highly reliable digital LFO, ADSR, and Portamento give the user unprecedented accuracy and flexibility in these vital functions. Auto-Tune incures that all twoive oscillators can be precisely funed in an instant. A Detune key in the SciorUnison mode allows up to six different VCO situhes to be defuned for impressive encamble effects.

The Arbeign can be used burn up to four oclavirs and in a ther up, down, or up and down partition. The Arbeign can be exist only gated for sequencer like lines. Key Futow in the Envelope section is community vanished owing the user the capability of creating both ematingly real pand tourings and impressive synthetics wheels.

### SPECIFICATIONS

\*Kindowd, 61 kms 6 octaves, C-scalet \*VOO MOD: LFO (10 ect), SWV1 (5 ect), VCO-1 (oviet)). VCD-2 linketti +PWM PW 80%~100% PWM ILFO 548% from PW level. EWY same as LFO! VCO I: Range (32' ~2' in phromatic). Waveform ✓ A JLJ, TLJ1 Cols M00 (SW1, merus)
 +100-2 Rarge (SZ ~Z in decorate) ~ Special range high 2 %5", low 1.5Hz%50Hzli, Waveform ITLL, release, Tune (±50 condi +5YNC) VOD-1 10 VOD-2 (INST, VOD-2 to VOD-1 eviet) Mile: VOO-1 mix VOO-2 +VCF: Miles (LFF Shift) ect. BPF 12dS/bct., HPF 24dS/bct.), Cutoff FREQ SP3~30Ms), Resoverce (Peak pain 15dB), EVV NO GIZ. EW/1.EW/2 SHIGH LPO NO HOT KYBD follow (2%-1-120%) YVCA: Dynamic range 60x8. EW/2 level, LRO +EW/1: Affack time (5~48s). Decay line (0~20s), Sustain level (0~100%), Release time (0~20s), Key follow (0~120%). Polenty (, h.,... \ / 1 • ENV-2: Serve as the EMI-1 except the Polarity switch +LPO: Rate (0.04Hprs-100Hol. Delay time (0+2s). Waveform (-/\*, /-, /-,

TLJ, randomi. Random special high frequency (\$30-Q) + Gide: Purtaments or glosserds, Time (0% 1 6 stact) + Arpeggio: Rate (T~25+b), Range (T-v 4 oct I. Mode (Let. down, up & down, down & up) Assign: Solin Solo unison. Unison detune ±50 cent. Poly-1, Poly-2 +Hold (upper, lower) +Key mode. Spiri 4-2. Spit 2-4. Whole +Fatter mode (upper or lower) Memory section: Stank (An-F. 6 parket), Number DNS, 6 x 8. 45 memories). Platch preset (4 banks x 8 32 present, manual, write \*Tape memory: Load. Venty, Save withouter sure: ±50 pent, Compu sune sine D3s1 + Bender: Lever, Oniof buttons (VCO-), VCO-31, Bendereich (3 oct. famil), VCO SENS (1 oct. variable), VOF SENS G oct. variables + LFO-2: Ordelf button, VCO SENS is 100 ound, VCF SENS is 4 / Rate (1~10Hz). Rise time (50ms~1s) + Output v volume (marter volume). Salance flower, upper). Carron (MP: 6009), Level attenuator (0x8)~15d8/ -30dRi Phones \*ExT controls: Arpaggio olock in Pallah shift, Padai hold, VCA covins (0~-20dB), VCF domo: (-64-42 oct.) +Others: Memory protect pwitch ignistition), Load rigus, Save putput, MiCt (in Out, Thrs. 5-pm DR0 \*Dimensions: 1060(W) \* 120(H) × 438(D) (VEL9" × 4.72" × 17.1") Meight: 16 kg (35.2 b.)

\*Colors: KS-20 stand (KSA-21). Adiabler to allow use of KS-20 with JUPITER (I). PV-2(I) hop volume, DP-2 podal switch. TS-8 Wursenum come.



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#### MIDI

The JUNO-106 is a completely new potyphonic synthesizer that accepts all MIDI information The JUNO-106 features three MIDI sacks on the rear panel -in, Out, and Through - as well as a Function switch used to select the send and receive mode for I KYBD, II KYBD + BENDER + PGM CHANGE, or III ALL. The settings of all front panel controls (LFO, DCO, HBY, VCF, VCA, ENV. and Chorus) can be sent and received using the Exclusive.

Message in the ALL mode. There are sixteen MtDI charmer select buttons on the front panel. Thurks to these superb functions, you can connect the JUNO-106 with any MtDI-equipped synthesizer or sequencer. Several MIDI devices can then besimultaneously controlled using the MIDI prough jack. All instrumental parts of a com-

cosition can also be performed using the data stored in a computer.

### **ELEMENTAL PARTS**

The JUNO-106, 61-key, 6-voice polyphonic synthesizer is easy to operate and packed with exciting functions.

The JUNO-106 features a higrey stable (XXX): the same kind as used in Roland's famous IX IP

There are 2 groups (A and B) with 8 banks stored in each group. Each bare stores 8 patches for a total of 129 patch memories. All the LFO, DOO, HPF, VCF, VCA, ENV. and Chorus settings can be memorized.

A cassette interface is provided to allow as program data to be stored on a cassette tape. Since the program data of groups A and II are. saved and loaded idependently, it can be combined or rearranged as you like. A memory protect switch is provided to prevent

the program data from being accidentally erased.

### PROGRAM MEMORY

The DCO's systeforms and ranges are selected by touch pads and the PWM. Sub-Oscillator, Noise and LFO controls are adjusted by sliding controls. The tone color is tailored at will by both VCF and HPF. And the VCA has a level slider and ENV/Gate select switch. A Chorus effect is provided to reproduce realistic string or organ sounds And for the first time in this price class, the JUNC-106 features a portamento function that is effective for both live



### REAR PANEL



SPECIFICATIONS

\*Keyboard: 65 keys t5 octaves, C-scale) \*DCO. Waveforms | TLLL . . / 1. Range (1878) 41, PWM. PWM moders.FO/Manuary LFO medication, Sub-OSC level. Noise level 4+PF. Cutoff frequency IDTA 3:01 \*VCF: Cutoff frequency. Resenance, Key tollow (Drv1007b.), ENV modulation, ENV polarity (\_/r-LFC meaution +VCA: Corona signal ( / - / LFL ) VCA level +ENV: Attack time I1.5mg-/3st. Decay time (1.5ms~12s). Bustein level (0~100%), Release time (1.5ms~12s) \*LFC: Rate (3.1~30Hz), Delay 60~3si +Chonus buttons: Off. J. II +Omers: Key Banapose Rasign mode (Poly-1 Poly-2), MICH channel (1.4-16) «Controllers: Portamento time: Portamento los/offi, Volume, Bender lever, thinder sens (DCD), Bender sens (VCF), LFO trig sens (DCD) Memory buttons: Patch number (1 %0). Bank number 25~Bit Group select (A. El), Manual, Write, Sevet Venty, Laws + Muth-Purpose Indicator: 7 segment LED x 2 \*Jacks: Outputs (phone x 2), Headphones, Podal-hold (DP-2), Parich shift (DP-2), Save, Load. MIDI Input. MIDI output. MIDI Preugh +Switches m the rear point: MIQL function (1/2/3); Memory protect \*Contral Tune (x50-cont) \*Comensions 9909W) × 120040 × 320(Dimm (08.1" × 4.72" × 12.6")

Weight: 100 kg 02.0 b).

Accessory: 2.5m correction cord x 5

### TYPICAL SET-UPS A. JUNO-108 + Other MID! Keyboards



The JUNO-106 can control another MIDI keyboard. By econecting with its MIDI THRU jacks. The JUNO-106 can also control more than one MIDI keyboards simultaneously. If the keyboards are then set to produce string sounds, is fullboded sound similar to that sit a full orchestra can be obtained.

### 8. JUNO-108 - MSO-100



When the JUNO 106 is corrected with the MSC-100 MIDUDGE MULTI-TRADIC DIGITAL KEYBOARD RECORDER, he MSC-100 can memorite he JUNO 106 is performence data. If two JUNO 106 under see allegred different MIDI charves when writing performance data into the MSQ-100, the two JUNO-106 units can smultaneously gerform two different matrumental parts.

# SYNTH PLUS-60 (HS-60) 5-vaice polyphanic synthesizer



If you'd fixe a symmetrier but know need to nothing about connections, set up, and so on the Synth Faul to a pust what you've been looking for Pealuring two built in speakers, each with 8 waits of power, the Synth Pas 60 allows the user to enjoy syntheticer sounds.

just by turning on the power switch.

The Synth Plus 60 is a 61-key, 6-voice polyphonic, programmable synthesizer. featuring ultra-stable DCOs. The waveforms and range of the DCOs can be selected at the touch of a button. The PWM, Sub-Oscillator level. Noise level, and LFO Modulation are adjusted using sliding controls. The VCF and HPF allow the lone color to be precisely adjusted. The VCA features a sliding leval control and ENV/Gate squact exact. Charus circuitry is provided to broaden the sound—especially effective when reproducing organ and string sounds. A Portamentofunction achieves polyphonic portamento. And a Key Transpose function lets you transpose to any key so that compositions written in a hard-to-play key can be played in your most comfortable key

Up to 128 patches can be stored in the Synth Plus 60 memory—more than enough for any purpose, from private lessons to recordings and performances. There are two bank groups, A and B, each group storing 8 banks and each bank storing 8 patches. All LFO, DCO, HPF, YCF, YCA, ENV, and Chorus, sestings can be memor and Any stored patch can also be modified as desired. A Tape interface allows all program data to be stored on a casestle tape. And the program data in groups A and B can be seved and leaded independently. It can be combined or rearranged as desired.

A Memory Protect switch prevents accidental erasure of program data.

The Synth Plus 60 is also MIDI compatible. MIDI in. Out, and Thru jacks are provided and the MIDI channel can be freely assigned A 3-position MIDI Function switch determines which information is to be transmitted over MIDI. In the first position, only key and hold information can be sent and received. In the second position, key, hold, bender, modulation, and program change information can be sent and received. In the third position, an exclusive message can be seril and received as well as all second position information except program change data (The exclusive message, which corries the information for the petch parameters and the program change information, can only be sent in the third position). For even greater enjoyment, you can connect the Synth Plus 60 to a MIDI system formed by MIDI devices including Roland's MNS series MIDI sound modules, the MSQ 100 MIQII sequencer, and a computer.

Two built in speakers, each with 8 walls of power faithfully reproduce the wide frequency range and complex wavelongs produced by the Synth Paus 60. When the Chorus effect is engaged the speakers produce distinctive rates of chorus sounds. The loudress of the speakers can also be completed by an optional EVS expression produce.

### **SPECIFICATIONS**

Villageounii 61 leays II octaines, Crocalel +DCO: Waveforms (III.), √1, Range (16.1614); PWM, PWM, Mode ILFO/Manuelt, LFO Moduation, Sub-Oscillates Level, Noise Level +HFF, Cubatt Frequency (0.1020) +VCF: Cubatt Frequency, Resonance, Key Follow ID, so 1001u.), ENV Modulation, ENV Relenty I..., √1.

LFD Modulation +VCA: Control Signal ( AN UTL): VCA Lovel >ENV: Attack Time (1.5ms to 3s), Decay Time (1,5ms to 12s), Sustain Level (0 to 100%). Pleneage Time (1.5mg to 10s) \*LFO: Rate (0.1 to 30Hz5. Datay (0 to 3s) \*Left Hand Contrals Portamento Time, Ptirtamento Ov/OII, Volume Bender, Bender Sensitivity (DCD, VCF), UFO Trigger Sensously (DCO) +Buttons: Cherun (Cit. I, III, Key Banspoor, Assign Mode (Pely 1, Pely 2), MIDI Channel (1 to 16), Pulch Number (1 to 5), Bank Number (1 to II), Group Select (A. III), Manuel, Write. Save Verify Load +Indicators: 7-segment LED a 2 \*Speakers: 10cm (SW) x 2 MRear Panel +Jacks: Output (Mono, Stareo), Headphones, Expression Pedal (EVS), Pedal Hold (DP-2), Palch Shitt (DP-2), Save Load, MIDI Dr. Clut. Thrui +Southnes: MIDI Function (1878), Memory Protect (DryOttOn). Output Level Select (HORAS), Power #Control: Tyte a 50 cavital +Climensons: 992(V) × 1300/6 × 3/. mm CSS 1" x 5.1" x 13.4") • Weight: 15.0 kg CCLC+gS Accessors Multi reil 9 0360

EV-5



An indispensable device for use with the System of the EV-5 allows you to add system expression to music—especially encoure for organ and string sounds.

The variable volume range can be freely adjusted using the Minimum Volume control. Made of rugged molded ABS ream, the EV-5 weighs just 400 grams.

### SPECIFICATIONS

- Controls: Main Volume (Pertal), Meumum Volume
- \*Demensions (800M) x 540+0 x 200x(0) min ( 3.4° x 21° x 7.9°) \*Weight 400g (0.9 to)





# SA-101 monophanic synthesizer



The SH-101 Monophonic Synthesizer has brought sophisticated synthesizer features, mobility, and the excitement of color together in a cost effective durable package.

A built-in Digital Sequencer allows automatic playing of up to 100 steps. In addition to the sequencer, the SH-101 can play automated lines with its Arpeggio unit

The Source Mix is capable of mixing VCO waveforms with Suboscillator and Noise Generator for sound creation beyond the scope of most monophonic synthesizers.

Key Transpose lets the user transpose to y key, so the range of performance is expanded. Octave Transpose can shift the instrument's range one octave up or down.

In addition to the conventional Portamento, an Automatic Portamento is provided which operates only during legato passages.

There are CV/Gare Input/Output racks and an External Clock Input to facilitate a wide variety of interface possibilities.

Two way power supply enables the SH-101 to go anywhere and the optional MGS-1 Modulation Grip gives the performing musician mobility on stage.

### **SPECIFICATIONS**

 Kiryboard: 32 keys (F-spaie) • VCO: Range (1618) 41/27). Pulse width modulation (50% ~mini, PVM. mode switch (ENV/MANUAL/LFC): Modulation cepth control. Tune (±50 cents) + Source mixer: Level controis (TCL), /1, Sub-oscillator, Nose), Sub-oscillator waverforms (1 act down TLL/2 act down TLL/2 act down TLL/2 act down TLL/2 act. down TLL/2 act. down TLL/2 act. Resonance (0~self-cecillation), ENV depth, MOD depth. Key follow (D~100%) \*VCA: Control signal SUNCE SWIEN (ENV / / IGATE /TL.) . ENV. ASIACK (1 5mg~4s), Decay (2mg~10s), Sustain (0~ 100%) Release (2ms~10s) Gate trigger select SWICH IGATE + TRIGIGATE/LFO) . MODULUS: LFO/ CLK rate i0 1 Hz ~ 30Hz), LFO/CLK rate indicator. Waveforms ( 1/2 / FEJ handominoise) . Controllers: Volume, Portamento (Time: 0~3s, Mode switch) Autoralitanii, Octave transpose (L/M/H), Bender sensawity (VCO, VCF), LFO MOD depth, Bender lever (LPO MOE) switch) +Sequencer (100 sleps max): Buttons & indicators (Lined Play) . Arpeggio Buttons & nacinosi (Up. U.S.D. Down) +Others: Buttons & indicators (Hold, Key transpose), Switch (Power on/ off), Indicator (Power) \*Jacks: Output (OdBm max). Headphones (Steren 8Q~15)Q), CV output (1V/oct., 0.415V~5V), Gate output (Off: OV, On: 12V), CV stout (1 V/oct., Dru7V). Gate input tOn at +2.5V over), Hold, External clock input (Slep at more than +25V pulse). DC input (9V~12V). Modulation grip in Power supply. DC 9V (UM-2 × 6 or PSA series ackder) • Dimensions 570(W) > 800-0 = 311(D)cyn (224" x 315" x 122") • Whight 41 kg (9.02 b.) without batteries . Accessories: 2.5m connection cord, BA-2 = 6

 Options, PSA series AC adapter, BR-2 (UM-2). drycell batteries. PCS-4 (minipug -- standard plug) cord, SC-101 soil case

### PSA series AC adapter





The MGS-1 allows the keyboardist have the same mobility on stage that guitarist and other instrumentalists have enjoyed. When the MGS-1 is used, the Bender and LFO functions. can be controlled at a single touch.

The Bender is used in the same way a guitarist bends a string and only functions in the upward direction. The degree of pitch bend is controlled by the Bender Sensitivity switch. The Bender on the SH-101 can be used in conjunction with that of the MGS-1

When the LFO button is pressed, LFO waveform modulation of the VCO and VCF occurs. This produces a choking and vibrato effect.

Contents: MG-1 (Modulation Grip) ≤ 1, Strap ≤ 1.







46 000



Hotand's new EP-50 electronic plane is fully MIDI compatible and leatures a full sized 76-key souch sensitive keyboard. It can be used either as an ordinary electronic plane or as a seyboard controller to other MIDI enstruments. In any situation, from professionable to jumming or home recording the EP-50's exquisite sounds will enchant you as as MIDI compatibility maximises the performance of your MIDI system.

The EP-50 features a 76-key touch-sensitive keyboard. Any change in your touch affects the sound. From the subfield plantstimo to the most powerful fortissimo.

The EP-50 teatures MIDI In, Out and The jacks. It can also send and receive MiDI program change, key, and velocity information. The MIDI channel can be freely assigned too. The EP-50 can be used as an 5-voice polyphonic MIDI keyboard controller for other MIDI sound-producing units including Roland's MKS MIDI sound modules. Or if can be used as a prano sound source for a MIDI sending unit such as a MIDI sequencer or computer.

The EP-50 offers and Harpaichord and three Plane sounds. All sounds can be recalled at the touch of a button. A Charus effect is provided to broaden the sound. And the sustain effect can be controlled by connecting the accessory DP-2 pedal switch. A Key Transpose function is provided to that you can transpose to any key you desire.

Two built in speakers, each with 4.5 watts of power, project sturning sounds. The volume is adjustable and the speakers can be turned off if you don't need them. Headphones can also be connected. You can play the EP-50 any time, day or night, without disturbing others. External amplification such as a keyboard amplifier or hi-fi system can be connected to the Output jacks to increase the volume.

The Stereo input jacks allow a stereo device, such as a cassens tape recorder, to be connected.

Light, compact, and easy to carry, the fully electronic EP-50 never needs to be tuned.

### SPECIFICATIONS.

 Kinyonand Ni keys «Buttors: Transpose Plano I. Plano III. Plano III. Historichard. Chorus.

SRDI Cortesi \*Cortesis Vistume, Tune I a 35 centro 

\*Switch Misnitor Chrictli \*Rear Panel Jacks (http://
2: Output x 2: Heisdphones, Dumper Peax, MIDI in, MIDI Out MIDI Thrus, Output Level Select Switch 

LMSH0 \*Speakers: More of SWI x 2 \*Dimensions.

t.misset x toleni x biblio emissi e x 4.7 x 14.51 •Weight 15.0 kg (ISI) bil •Accessmen Music rest.





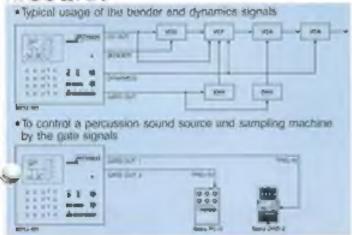


### MPU-101





TYPICAL SET UPS



MPU to come MIDI data into analog signals. Connecting the MPU-101 to a MIOI sending unit, up to four conventional 1-volt/octave CVigate synthesiows can be controlled by MIDI data.

The MPU for has four output channels, each with prich control voltage, gate signal, and dynamics control signal outputs. There are also control voltage outputs for bender, modulation, after touch, and volume. Voltage-controlled devices other than synthesizer, including lighting equipment, can also be controlled. And the gate signals can also be used as trigger signals to control other devotes.

The MIDI channel can be assigned to one of 1 to 16. A MIDI Out lack is provided in addition to the MIDI in and Thru jacks. Up to 8 CV synthesizers can be controlled by combining two MPU 101's.

Five operation modes are provided for a variety of applications.

- Mono Mode: Four CV synthesizers can be controlled by MIDI data transmitted on four different MIDI channels.
- 2. 2-Voice Mode: MIDII data for up to two notes is converted into CVIsate signals and comes through outputs 1 and 2.
- 3. 3/libide Mode: MIDI data for up to three notes is converted into CVigate signals and comes through outputs 1, 2, and 3
- 4. 4 libide Mode: MIDI data for up to four notes is converted into CVigate signals and comes through outputs 1, 2, 3, and 4.

When the connected MIDI sending unit is in the pary made, three different assign modes are accessible, then the MIDI key information can be assigned to four outputs in three different ways. An Octave Transpose function simultaneously shifts the pitch control voltage of four CV outputs one octave up or down.

### SPECIFICATIONS

+MIDI Channel Selector: 1 to 16 \*Dollare Transpose: UMH \*Assign Mistillo: VISID +Operation Modes: Mono, 21libide, 3 Moos, Allbide, Special HHotz. ExcabierEnable +Clear: Puch On +Tune: On/OH Switch, Control ( a 100 cents) Output Jacks (Notaget: OV ( -3 to +7.58V) x 4, Dynamics (0 to +19V) x 4. Gate (CRI. OV. On. + SVI) x 4. Bender I - 1 to + TVI. Modulation to to + 10VI. After South (3 to + 10%), Volume (3 to + 10%) + Indicators: Power, Galle x 4 High Operation Mode # 5 (Mont), 2-Voice, 3-Voice, 4-Voice, Special) +MiOI Jacks: In: Out. Thru +Dimensions: 206000 x 81040 x 206000 mm (8.9" x 3.2" x 8.97 \*Weight, 21 kg (6.6 lb.) \*Accessory: 1.5m MIDI cobre



13.600

### MPU-103





TYPICAL SET-UP



The MPU-103 MIDI Channel Filter/Converter reassigns the MiDI channel: It accepts MIDI data transmitted on the MIDI channel selected by the Filter switch, then sends that data on the MIDI: channel selected by the Converter switch.

MID! data other than key information can be eliminated using the Key Event Only switch. A MIDI indicator lights when the MPU-103. accepts MIDI data.

#### **SPECIFICATIONS**

 Suitches: Fifter Charvel Select, Conventer Channel Select, Conventer CNOR. Key Event Circy DrVDff +Indicators: MIDI. Power +MIDI Jacks: Int. Out. Thru:

\*Power Source: DC 91 by PSA series AC adapter +Current Draw: DC 9V.
200 mA +Ownersons: 2'9(80 x 460+0 x 16702) xem (8.6" x 1.8" x 6.6")
 \*Veright: (100g (2.05 tb.) +Accessory: AC adapter (PSA series)



# TR-707 rhythm composer



### SOUND SOURCES

The TR-707 offers twelve different drum sounds—two Bass Drums: two Share Drums. Rim Shor Low, Mid, and High Toms, Open and Closed Hi-Hats, and Ride and Crash Cymbals. In addition, it also offers three different percussion sounds to form a complete thythm section-Cowbell, Hand Clap, and Tambourine. These filteen sounds have been digitally recorded by means of Pulse Code Modulation. (PCM). All sounds have a high signal-to-noise ratio, a broad dynamic range and are extremely clear and realistic. Individual level sliders are provided for each sound. The volume balance between each sound. can be easily adjusted and confirmed at a glance

Two accent levels can be programmed. The accent level can be varied even during performance using the Accent sider. An outout jack is provided for each sound so that you can tailor each sound as desired using sound processing units

The TR-707 can store 84 rhythm patterns (16 patterns in 4 groups). and rhythm chains of up to 999 measures (In 4 tracks). It also has a tape interface for data storage on a cassette tape. An optional M-64C. memory cartridge is also available. The cartridge has two banks. Each bank can store up to 64 rhythm patterns and rhythm chains of up to 959 measures. Thus, the M-64C provides memory as large as two TR-707's. The memories in the TR-707 and M-64C two banks can be freely selected. The TR-707 offers plenty of rhythm variations for both recording and performing.

### DISPLAY

The TR-707 has a large, easy-to-see liquid crystal display. The display shows you the rhythm partiern, programming mode, track number, measure number, tempo, and MIDI channel. The display allows even beginners to easily program rhythm parterns that would be difficult to program on other drum machines. Any intricate chythm pattern can be quickly and accurately programmed

### PROGRAMMING

The TR-707 features two programming modes—real-time and single step. In the real-time mode, you can program thythm patterns by tapping the sound buttons the same way you play a drum. In the single-step mode, you can program one sound at a time step-by-step Unlike those of other drum machines, these two programming modes. can be changed even while programming. This allows quick, accurate programming. For example, when you wish to program a rhythm pattern with complex hi-hat and snare patterns and with simple bass drum pattern. Program the hi-hat and share patterns in the singlestep mode, and program the bass drum pattern in the real-time mode. In the real-time mode, a metronome can be activated at the touch of a button, "Shuffle" and "Flam" can also be programmed.

The TR-707 is MIDI-compatible. Connecting a velocity-sensitive MtDI. keyboard to the TR-707, all TR-707 sounds can be dynamically controlled from the keyboard with 128 levels of loudness. Each sound can be assigned to a desired key. Dynamic, expressive drum playing can be performed directly from a keyboard. And by connecting a MIDI sound-producing unit to the TR-707, other sounds can be added.

### OTHERS

The TR-707 has a Sync-24 jack to sync with another Sync-24 device. It also culputs a Rim Shot trigger signals that control an external device. The Tape Sync function allows the TR-707 to be synced with a multi-track recorder. The TR-707 can be started and stopped by pressing the DP-2 foot switch. A headphone lack is also provided for easy monitoring



### **SPECIFICATIONS**

 Sound sources: Digitally recorded (PCM) sound sources: Bass Drum 1. Bass. Drum 2, Snare Drum 1, Snare Drum 2, Low Tom, Mid Tom, High Tom, Closed Hi-Hat, Open Hi-Hat, Ride Cymbol, Crosh Cymbol, Hand Clap, Tambourine, Rim. Shot, Cowbet . Programming modes. Single-Step. Real-Time . Memories. 64 thyram patients. Up to 999 measures of mythm chain (in all 4 hacks) Programmabilit functions: Shuffe, Flam, Accent \*Master outputs: Right Mono.

Left . Multi-outputs: Bass Drum, Share Drum, Low Torn, Mid Torn, High Torn, Hi-Hat, Ride Cymbel, Crash Cymbel, Hand Cep/Tambourne, Rim Shot/Cowbell MID! jacks th. Out •Sync-24 jack: In/Out •Tippe intertage jacks. SavetSync Out. Load/Sync In Others: Remote Jack (Start/Stop). Trigger Out jack (Rim-Shott, RAM Carindge slot (for M-6+C). Headphone sad: • Controls: Tempo. Accent. Volume. Sound-Source Level = 10 \* Liquid Crystal Display 1 \*Dimensions: 380(W) = 75(H) = 250(D)mm (15.0" = 3.0" = 9.8") \* Weight 1.5 kg

(3.5 b.) • Accessories AC adapter.



# TR-909 thythm composer



96 rhythm patterns can be memorized --48 catterns in each of himb banks.

There are two banks, each having four tracks for storing programmed rhythm chains of up to 696 measures.

Eleven kinds of sound sources.—Bass Drum, Snare Drum, Low Tom, Mid Tom, High Tom, Rim Shot, Hand Clap. Closed and Open Hi-hat, and Crash and Ride Cymbals. Several controls such as Tune or Level are provided for each sound sources. You can accurately tailor their sound. A Shuffle function and Flam effect are also provided to create full variety of drumming.

There are two loading modes. In the real-time mode, you can create rythm patterns by lapping the sound source buffons to the mythm, the single-step mode, you can program a shythm pattern by writing each sound source in the each step.

A large LED display indicates the measure number and tempo in numerical number.

A tape interface is provided for data storage on casseste tapes in addition to the Master Output, each sound source can be outputted separately using Multi-Output tacks.

Three MiDI jacks are provided—two for output and one for input. They allow the TR-909 to be connected with other MiDI devices to synchronize or to use external sound sounces. Or the TR-909 can be controlled by the device connected to it. This allows you to create complex soon sticated drumming.

The TR-909 has a Sync-24 jack for synchronized performance it can be started or stopped by the optional DP-2 foot switch. It also generates the Rhm Shot Ingger to control an external device.

The use of an M-64C memory cartriage doubles the memory capacity of the TR-909 for the rhythm patterns and mythm chains.



### **SPECIFICATIONS**

\*Number of memoripatite mythm patterns. 96 patterns—116 patterns = 1 cm = 1 min s from mous 1 min s from min stars 1 min s from m



### RHYTHM MACHINES

### TR-606 diumatic



The TR-606 offers 7 drum sounds, all with individual level controls. It can also store up to 32 rhythm patterns with programmed accents. There are 8 tracks. Tracks 1 to 7 store rhythm chains up to 64 measures long. The 6th track stores rhythm chain up to 256 measures long. Step programming allows even beginners to easily program any rhythm pattern.

Sync-24 and Trigger Out jacks are also provided. And headphones can be connected to create music anywhere, anytima.

#### SPECIFICATIONS

■Sound sources Sam Drum Snate Drum Low Tam, high Tam Cymbal Open Ni-Hall Closed Hill-Hall Accend • Number of memorizable shyllen patterns, 32 (16 = 5 arthur grown I. El • Number of them. 6x measures × 7 tracks. 256 measures × 1 hack, Continuous one 256 measures • Number of these per measures × 1 to 16 • Jacks AC Adapter Cultur. Headphones Tragger Qui × 2 (High Tom. Low Tam. +14V, 30 ms pulse) Sync-3a (mount 6 missing (DP-2) • Sevina Sync-34 mode select (m/Opt) • Power Batteries (UM 2 • 4 AC Adapter • Dimensions 300/VI) • 55(H) • 145(Dimm 11 6 \* • 11 7 • 5 15) • Weight 1 (1 kg (3 1 to 1 • Accensories Solt carrying case Connection cord.)

### *CR-8000*



The Roland Compu-Rhythm CR-8000 is ideal for the casual musician. The unit has twenty-four different Basic Rhythm Patterns and eight types of presets of Intro/Fill-In Rhythm Patterns. In addition, the CR-8000 has eight Programmable sections for Basic Rhythm and four Programmable sections for transfell-In Rhythm. You can easily create your own rhythm patterns. Furthermore, the CR-8000 has Trigger Out to control external sequencer or synthesizer. In addition, the Syncro-In/Out section of the CR-8000 allows if to be synchronized perfectly with units such as the Roland MC-202 Micro

Composer.

SPECIFICATIONS.

\*Preset Phythms: Walts. Swing 1, Swing 2, S. Rock, Tange, Habaners, Enke, BD-3.

Rock 1 to 0. Disco. For Tot. Sambs 1, Sambs 2, Wellington, Mamoor, Chacha.

Rick 1 to 0. Disco. For Tot. Sambs 1, Sambs 2, Wellington, Mamoor, Chacha.

Rick 1 to 0. Disco. For Tot. Sambs 1, Sambs 2, Wellington, Mamoor, Chacha.

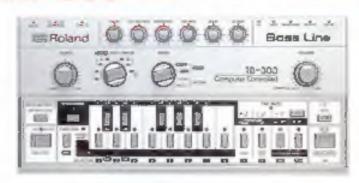
Rick 1 to 0. Disco. For Tot. Sambs 1, Sambs 2, Wellington, Chacha.

In This Hart Copen Haloc an \*Intim Fill Preset 1 to 3, Program 9 to 1, \*Intito Fill Manocran, On 16 12 5, 3, 1 \* Annager Chaol Chall Program 9 to 1, \*Intito Fill Manocran, On 16 12 5, 3, 1 \* Annager Chaol Chall Preset Sat 0 161. Sept. Hall Copen Hall

Congo. Handstap Shuffer \*Jack Coulout (book more) for Sat 0 161. Sept. 4 Yoro at 10kg). Trigger Coulout (143 V 10 ns police) Periode Control (StuffStor, Annath 16th, Fill-In Recipton). Sync-24 \*Swild Trigger Fill Intimical Site. ACCI, Sync-24 mode release (164 Curi) \*Tempo Dispay 1 \* Dimensions. 331 (W) \* 10 kHz.

275(Dimmics) 0.0 = 4.25 \* 11 (V) \* Weight 1, Visit 1, Visit 1, Visit 1, Visit 2, Visit 1, Visit 2, Visit 2, Visit 3, Visi

### TB-303 bass fre



The TB-303 covers three full octaves instead of strings, you use keys to program base patterns. Up to 64 patterns can be created for use anytime. And, like a base synthesizer, you have full control over resonance, envelope modulation and other important factors influencing sound quality.

When used with the TR-506, you can play bass and drum petterns at , the same time. Completely portable, the TB-303 turts on either battery or AC adapter and comes equipped with its own carrying case. A headphones tack is also provided as standard.

SPECIFICATIONS.

\*Number of manufacture patterns (a \*Programmable functions Price Note langer, Account 5 on Circle of patterns Shift of patterns 0.5.5. \*Number of Note bettern one 1 (1771) \*Number of those per measure 1 (1771) \*Number of thacks 14 measures \*T backs (Continuous feat 1751 or 15 [771] \*Number of backs 14 measures \*T backs (Continuous feat 1756 measured \*Sagaller 3 between 04 ontaves in the fract writing model \*Saccio AC Adapter Output Hospitation Cate Out (Off OV Cn. \*12V) CV Out (+1 to +5V (Vroct) Gyno (4 in Main Impedance (Over unity gain) \*Santot Waveform Sentert 7 (\*\*T\_1) \*Power Bartines (UM-7 \* 4) A) Adapter \*[pmen ons 200(W) \*55(H) \* sanDirmo (11 5 \* 2 17 \* 5 75) \*Waqqn\*\* 1 0 vg (2 2 to) \*Accessories Bott carrying case Connection points.

\*Accessories Bott carrying case Connection points.\*\*

### CR-5000



A high-performance preset rhythm machine, the CR-5000 is identical to the CR-8000 with the exception of a memory function. Designed for users who want simple control of a wide variety of rhythms, the CR-5000 has 24 basic rhythms and 8 intro/Fill-in rhythm patterns. Preset rhythms can be modified by adding various voices that are available in the Arranger section of the CR-5000. Hi-hat and cymbal voices can be added to any rhythm and the basic feel of the rhythms can be affected by use of the Shuffle function. A Crash cymbal sound can be added to the end of an intro/Fill-in as well.

SPECIFICATIONS.

Present mythrine Waitir Swing 1. Swing 2. 5. Rock, Tango, Plabanera Crisa, SQL-2. Rock 1 to 6. Dinion, Fox first Sampa 1. Melling in Mampo, Chacha Rhumba, Browne, Bossanoya, \*Sound Jeuroet, Bleet Churn, Smare Ditum, Low Ton, Hill Ton, Hill Hall, Cymbal, Rim, Short, Low Congs, Mid Congs, Cowbe, Cuyan, \*Intrag. Politic 1, C. 8. state, Philip 19, in Melasurer, DRI 15, 12, 4, 2, 3. An amper, CY-5. PHH 4", HH-16", Coen Hill Canga, Shuffle \*Jackin, Culput (four impedance, GeQ in level 2, volg et 10x9). Trigger Culput (+5x, 10 ms punet). Remote Control (5tant) Stop, Restart, Introd-inum, Register). \*Switch, Trigger Pune (1801). In ACCI. \*Tempo, LED indicator, 1, \*Dimension, 2 try, W. \*100(Hill \*, 279). Dimension, 2 try, W.



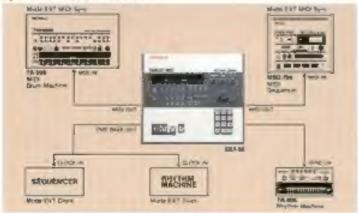


The SBX-80, all epoch-making programmable tempo controller, can even synchronize electronic instruments that employ different synchronization methods. It can read and generate SMPTE time code, the most popular time code used workdwide in professional broadcasts, recordings, and film work. The SBX-80 also generates MIDI, Sync-24, and Time Base signals. The Time Base can be selected from 1, 2, 3, 4, 12, 24, 48, 98, or 120 clock pulses per quarter note. The SBX-80 will prove essential not only in musical productions, but also in video and film productions.

For instance, if SMPTE time code is recorded on an empty track of taped music and tempo data is programmed into the S(IX-60, all stave instruments will be automatically synchronized with the taped music as it is played back. The SBX-80 is also indepensable in synchronizing taped music with video pictures that must be played within a certain time, such as TV commercials.

in terroo can be controlled by the Terropo khob, numerical pads, by sping the Tap switch, or by the click signals from an audio source. It is also possible to program the tempo data for a whole production. A large display shows all the data required, including tempo value and time. The Edit function allows the programmed data to be edited and modified at will. A Tape Interface allows programmed data to be afored on a cassella tape.

### Synchronization of instruments using different synchronization methods



All connected instruments are controlled by the tempo data stored in the 58N-80 or by the MIDI data transmitted through the MIDI in jack of the 58N-80. The Time Base can be seedled from 1, 2, 2, 4, 12, 24, 46, 90, or 120 dock pulses per quarter note.



SPECIFICATIONS

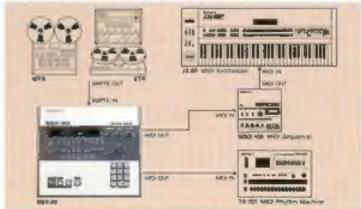
\*Momenty capacity op to 1967 beats (Number of Indominal Intermedable medicated 991 to 466, (#36 in 144, Persong time at the temporal (#30 beats per month Argun 33 minutes at 444, Appril 29 minutes in 1745) ▼Tauch response switch. OutdetMedicated • €uttoms, Studies 1 to 150 minutes packs 0 to 9. Erses • €wechers. Display Select, Set • 5. SMPTE Control. Total Time, Dead Backward Ericl Flory and Merusi, Pray, Record Count.

In time Sign. Tape Edg. Conyrisons and Debate Inscribble Line Regist!

SMPTE Source (EXT/INT) • Controls Tempo 1 , 20 to 250 h. Metronomia
Line Austo in Lever • Time Base is est which 1, 2, 1, 4, 12, 24, 46, 90, or
120 cook pures per quarter code • Hernole acts. Start Securce (Hugo)
packs Audio in (Lever • 20 dilm impedants 3042), SM\* This and (Transfer face 2,400 beauth at 30 Firm 2000 beauth at 20 Firm. Lever: 1,0 to 1,5 kg of • Output acts. (Level: SMPTC/Size II 5 kg-c), Time Base 0 to 5 kl.

Metronomic (1 kg of max) • MCA parts. In, Out • 2 • Eyro 24 acts. Out • 2 • Demensions, XT (W) • 107/40 • XD/Dilgen (12 8 • 4.7 • 1) ↑ 1 • Wesper 15 kg (7.7 b.) • Accessoores. 2.5m MiDi cable, Connection cord

### Synchronization of video picture with music



First record the SMPTE time code period to by the SBX-80 on both the VTR and MTR. Then reload into the SBX-80 the SMPTE time code stored in either the VTR or MTR. The programs the tempor The MSQ-100 stores the performance data that in turn controls the JX-87. When the VTR or the MTR is started, at instruments connected to the SBX-80 will be synchronized.

# MIDI digital keyboard recorder





The MSC-100 has a memory capacity of up to 6,100 notes and can also memorize other information required for musical performance, such as key velocity, key pressure, or bender operation.

The MSQ-100 features two founding thethods—real-time founding (4/4 or 3/4) and step loading (3/3 3/3 3/3 ) or 3 ). Both methods can be combined according to your needs.

In the real-time mode, overquibling is possible. You can write new data over the previously leaded data as many times as you like. It is also possible to overdub only one measure.

The MIDI channel shift function above you to change MIDI channel to another MIDI channel as the MIDI data is louded. For example, using an instrument whose MIDI channel is assigned to channel 1, you can load performance data to control an instrument whose MIDI channel is assigned to another channel.

Several edit functions allow you to easily change the loaded data all desired.

- Forward/back measure: shifts the date one measure forward or backward.
- . Copy: the data in one measure a copied
- Erase: all the data stored during and after the assigned measure is enlared.

Insert: data the length of one measure is inserted between the previously loaded data.

- . Dalete: crases the data for one measure.
- MIDI channel erase: when data is loaded by means of overdubbing, the data stored during and after the assigned measure of one MIDI channel can be erased or modified.
- Tempo check city the metronome operates.
  The MSO-100 offers no memorized data. This function allows you to adjust the tempo of the MSO-100 using only the metronome sound. This is especially convenient for live performances.

A riguid crystal display indicates remaining memory dapacity. MIDI channel, edit mode, etc.

In addition to the MIDI jacks, the MSQ-100 has Sync-24 in and Out jacks to synchronize with any device that has a Sync-24 jack, such as the Roland TR-606 Drumatti, the TB-303 Bass line, or the MC-202 MicroComposer.

A tape mierface allows data to be stored on a cassette tape.

The MSQ-100 can be started and stopped using the optional DP-2 pedal switch.

The function switch located on the rear pures determines whether performance data (key velocity information, bender/control change information, or after touch information) is received or not to accommodate the sound producing capability of the connected instrument. For example, when an instrument that can't respond to the key velocity information is connected with the MSQ-100, turn the Key Wilcolly switch off. This operation also saves mornery space, to the key velocity data isn't memorized by the MSQ-100 in this case. Thanks to its light weight and compact body, the MSQ-100 is easy to carry and can be placed vertically anywhere.



### SPECIFICATIONS

- Marriary capacity: Approx. 6.100 single notes in hour key virticity: \*1859.
   switch at Play Only, Load/Play: Data Transfer \*Cock switch: INT/MOD/SYNC.
- \*Tempo centro: ... = 35 to 340 \*Metranome level switch High/Low/Clf \*Commiss Lovel bullon Reset/Verity bullon Stockfind bullon Play/Save bullon Report Play/MtDt/Tape bullon Back Meanure/Back Single-/Copy bullon
- Forward Measure/Forward Step Prese button, Te/Lous Modern ert bullon.

  Ren/Deplay/Derein button, Measure Fing/MOI Granner Shift/Tempo Check
  button Lous modern Fest one (4/4 a.M. Oyn a.D. Step 1 ) ) ) 

  ) ) i Ugund crystal display 1 Function swaches. Manageme Final ( ) 

  ) Ray Valocity Ion offi. Bunder/Contro Change (on/eff). After Town Towns()
- , 1 Key Vancety Ionroff, Bender/Commit Change for tell, Aller Sales Ionroff, MIDI Qui Who Corrint Chay, MDI Qui Thru (Qui/Thru, Tape Salve Level (Lot). Tape Lossy Mode (I/S) = Junks. Tape Lossy Tape Salve, MIDr In. MIDI Qui MIDI Cout/Thru, Sylocide In. Sylocide (I/S) = 12 × 6.8") • Whight 1.8 kg (4.0 lb.).
- Accessories: AC adapter (PSA-100), MIDNSync cable (1.5m) s 2

# MIDI/DCB multi-track digital keyboard recorder



The MIDI-competitive MSQ-700 accepts all MIDI information, including plish, velocity, MIDI channels. Patch memory changes. Hold function. and Bender operation, and reproduces all the data faithfully

A DCB connector allows connection with a DCB synthesizer such as JUPITER 8 and JUNO-60.

Up to 6,500 notes can be stored in the III memory tracks. Tracks can be performed in any order by the chain function and several can be loaded simultaneously by the multi-brack function. Track-down icondensing data from several tracks onto one track) can be done by the Merge function. Overdubbing is also possible.

The memory dispecify of each track can be wared according to need. Two loading modes are provided—single-sites and real-time. The time value of notes can be altered even after they're loaded by the time derrect function.

Data such as remaining memory capacity. length, and measure number are digitally displayed.

High-speed cassette interface allows data to be stored on cassette 14005

A battery protects the memory, even during power interruptions. in addition to the MIDI and Sync-24 synchronizations, the MSQ-700 features a Tape Sync function to allow synchronization with a multi-Nack Noorder

### SPECIFICATIONS.

 Maximum memory capacity: Approx. 6,500 notes (in all 8 tracks) • Mildes.
 Chart, Norma, Tape • Dock. Hismail. Spe. Sunc. MIDI • Display: Measure: Drain, Note, Tempo, Datus +Number of tracks, 6 tracks +Loading modes: Rest Time/Step + Bloot: Free, 1 to 6, 8 + Resolution: 1/32, 1/24, 1/16, 1/12, 1/8, 1/6, EIE, 112 \* Semple: \$1 = 35 ~ 250 \* Metronome Swinors Off, Load/Play, On \* Pleas Panel: ERT Control Jacks (Startsforp, Funch Int. Sync-24 In/Out Jacks (S-pin Diffs. Tippe Sync. Jacks (Loadrin, SaverOut), Memory Protect ChVOtt Switch • Dimensions: 3880W) × 1080H • 308(Dimen 0.3.6" × 4.25" × 12.5") • Weight 5.0 kg (11.0 b.) +Accessories: DCB cade: 0.115 x 1, 5-pin DN cade: 0.5 mi x 2

## DCB digital keyboard recorder





The JSQ-60 is a polyphonic sequencer connectable with DCB synthesizers such as the JUNO-60 or JUNITER-8.

Due to its large memory capacity of approximately 2:000 notes. (No JSQ-60 can memorize a complete musical composition.

The JSQ-60 can also memorize changes in the patch memory of the JUNO-60 or changes in the patch preset pairs of the JUPITEA-8.

The JSO 60 is capable of both resi-time and single-step loading In the real-time mode, all performances stailed by the keyboard are loaded. And in the single-step mode, the pech of each note is loaded in each step.

While listening to previously loaded performances, you can overdub up to Tivel times in real time.

Shifting the JUNO-60's parett memory and the JUPITER 6's patch preset pairs and starting/stopping the JSO-60 can be controlled by the DP-2 pedal switch.

A cassette interface is provided for invitiess data storage.

Two Sync-24 out jacks are plouided to sync with devices such as the TR-606 Drumetix or TB-303 Bisis line.

Easy to carry. Only 1.5 kg in weight?

### SPEC FICATIONS

 Memory depicity & K byte approximately 2,000 single noted. • Loading memods. Resiliance loading. Sinc leading + Memory load LEGs. 25%, 50% 15%, 90%, FULL \*Tempo: J. is 40%000 \*Matronome level High, Link Off \*Jacks: DCB (recuery a cable). Tape load, Tape sieve (fyric 04 out × 2, Patch soft out. Pance shat at EP-2 or + trigger1. Shart-stap (EP-2 or + trigger), DC 9V in PSA series AC Adaptor) • Emergeure 226/W1 × 5796 × 225/01 min (8.9) × 2.24′ × 8.78′ ) + litergris: 1.5 kg (3.3 lb.) + Accessory: PSA AC Aregne: × 5